



Docket No. CH2M.45

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	MILLER ET AL.	}	
SERIAL NO.:	10/774,678	{	EXAMINER:
FILED:	FEBRUARY 9, 2004	. {	ART UNIT: 3672
TITLE:	HORIZONTAL BORE CRYOGENIC DRILLING METHOD	{	CONFIRMATION NO.: 9441

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Applicant calls the Examiner's attention to the patents and publications listed on the attached Form PTO-1449, copies of required documents enclosed, which may be material to examination of the above identified application.

TIME OF TRANSMITTAL

This Information Disclosure Statement is being filed under 37 CFR § 1.97(b). This Statement is filed within at least one of the following time periods:

- within three months of the filing date of a national application (other than a CPA (a) under 37 CFR § 1.53(d));
- within three months of the date of entry of the national stage as set forth in 37 (b) CFR § 1.491 in an international application;
- before the mailing of a first Office Action of the merits; or (c)
- (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR § 1.114.

No fee is believed to be due in this instance. However, the undersigned hereby authorizes the charging of any fees created by the filing of this document to Deposit Account No. 19-5117.

> 37 CFR 1.8 CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450on 15, 7004

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. This listed patents and publications are believed of interest herein and consideration and citation of as interest by Examiner is respectfully requested.

Respectfully submitted,

James L. Brown, #48,576 Swanson & Bratschun, L.L.C.

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

List of Information Cited by Applicant

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ATTY. DOCKET NO OIP &

APPLICANT MILLER ET AL

February 9, 2004

MILLER ET AL JUN 1 8 ZU

SERIAL NO. 10/774,678

JUN 1 8 2004

GROUP 3672

			U.S. PAT	ENT DOCUMENTS			
EXAM. INITIAL		DOCUMENT NUMBER	DATE	NAME	CLS	SUB- CLS	FILE DATE
	AA	1,906,771	05/02/1933	SANDSTONE			
	AB	2,621,022	12/09/1952	BARDILL			
	AC	2,193,219	03/12/1940	BOWIE			
	AD	2,812,160	11/05/1957	WEST			
	AE	2,905,444	09/22/1959	SHEPARD			
	AF	2,915,285	12/01/1959	DEILY			
	AG	3,422,892	01/21/1969	BRYANT, JR.			
	AH	3,223,186	12/14/1965	LUMMUS			
	AI	3,424,254	01/23/1969	HUFF			
	AJ	3,612,192	10/12/1971	MAGUIRE, JR.			
	AK	3,650,337	03/21/1972	ANDREWS			
	AL	3,720,065	03/13/1973	SHERARD			
	AM	3,774,701	11/27/1973	WEAVER			
	AN	4,191,266	03/04/1980	VAN EEK			
	AO	4,287,957	09/08/1981	EVANS			
	AP	4,516,878	05/14/1985	REBHAN			
	AQ	4,997,047	03/05/1991	SCHROEDER			
	AR	5,388,650	02/14/1995	MICHAEL			
	AS	5,701,963	12/30/1997	MCCORMICK			
	AT	5,715,895	02/10/1998	CHAMPNESS			
	AU						

FOREIGN PATENT DOCUMENTS							
EXAM. INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLS	SUB CLS	TRANS
	AV						

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				
	AW	Cavagnaro, et al., "A Successful Borehole drilled by Cryogenic Drilling in an Arid Unconsolidated Soil with Boulders" submitted for Presentation at the Energy Week Conference and Exhibit on January 28-30, 1997			
	AX	Cooper & Simon, "Filed Test of the Cryogenic Method for Environmental Well Installation" presented at the 1995 ASME Energy-Sources Technology Conference and Exhibition, Houston, Texas, 29 Jan - Feb 1, 1995			
	AY	Innovative Technology Summary Report, "Cryogenic Drilling, Subsurface Contaminants Focus Area," prepared for U.S. Department of Energy Office of Environmental Management Office of Science and Technology, October 1998			
	AZ	Simon & Cooper, "Use of Cryogenic Fluids for Environmental Drilling in Unconsolidated Formations" published in ASME (American Society of Mechanical Engineering) Energy Sources Technology Conference and Exhibition, New Orleans, Louisiana, 23-26, Jan. 1994			
	AAA	Simon & Cooper, "Cryogenic Drilling: A New Method for Environmental Remediation" published in Ground Water Monitoring and Remediation, 1996, p. 79-85			
	ABB	Vermeer website at www.vermeer.com/equipment/directional_boring/ (printed 12/5/2003)			
EXAMINER		DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE:

June 15, 2004

APPLICANT:

MILLER

SERIAL NO.:

10/774,678

FOR:

HORIZONTAL BORE CRYOGENIC DRILLING

METHOD

RECEIPT IS HEREBY ACKNOWLEDGED OF:

INFORMATION DISCLOSURE STATEMENT; PTO FORM 1449 AND REQUIRED DOCUMENTS LISTED THEREON

CH2M.45